# 2004 Water Quality Assessment (Final) - Category 5 Listings for WRIA 9

WRIA	Listing ID Categ	ory	98 List?	Waterbody Name	Location I	nformatio	n				Parameter		Medium
				Basis								Remarks	
9	12613	5	N	ANGLE LAKE	276YAS	22N (	04E	03			Fecal Colifo	orm	Water
				Department of Ecology lakes monitoring data shows 2 of 3 (66.6%) daily maximum samples criterion in 2003. Samples were collected near Angle Lake Park recreation area and reflects							he percentile	T22N R04E S03	
				King County unpublished data from station A732 show a geometric mean of 380 cfu/100mL unpublished data from station A732 show a geometric mean of 68 cfu/100mL with 0% exceeds							8. King Coun	ty	
9	42303	5	N	BARNES CREEK	MW05BA	0	221	N 04	1E	17	Dissolved o	xygen	Water
				Herrera Environmental Consultants, 2001., (submitted by Bob Sheckler, City of Des Moines criterion; 2 samples in 1995, 2 samples in 1996, 3 samples in 1997, 1 sample in 1998, and 1			n BA-	-1 sho	ows t	the following exceed	ances of the		
9	42304	5	N	BARNES CREEK	MW05BA	0	221	N 04	1E	17	Fecal Colifo	orm	Water
				Herrera Environmental Consultants, 2001., (submitted by Bob Sheckler, City of Des Moines 913.06 exceeded the criterion and 6 of 7 samples (85.7%) exceeded the percentile criterion; 8 samples (62.5%) exceeded the percentile criterion; in 1997 a geometric mean of 355.73 e percentile criterion; in 1998 a geometric mean of 2259.46 exceeded the criterion and 5 of 5 geometric mean of 467.53 exceeded the criterion and 7 of 8 samples (87.5%) exceeded the	in 1996 a xceeded the samples (10	geometric e criterior 00.0%) ex	c mea	n of 4 8 of 9	191.9 9 sar	93 exceeded the crit	erion and 5 o	f	
9	15866	5	Υ	BIG SOOS CREEK	VY43OI	18.07	221	N 05	5E	03	Dissolved o	xygen	Water
				King County unpublished data from station L320 (Soos Creek RM 10.5) show excursions be	yond the cri	terion ea	ch ye	ar bet	twee	n 1993 and 1997.		Name was SOOS	CREEK SYSTEM on 1998 listkk
9	15867	5	Υ	BIG SOOS CREEK	VY43OI	16.347	221	N 05	δE	10	Dissolved o	xygen	Water
				King County unpublished data from station M320 (Soos Creek RM 10.0 ) show excursions be	eyond the c	riterion in	1993	3, 199	94, 19	995 and 1996.		Name was SOOS	CREEK SYSTEM on 1998 listkk

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WRIA	Listing ID Cat	egory	98 List?	Waterbody Name Basis	Location I	nformatio	n			Parameter	Medium Remarks
9	13160	5	Υ	BIG SOOS CREEK	VY43OI	0	21N	05E	16	Fecal Colifo	rm Water
				King County unpublished data from station A320 (Soos Creek RM 0.7) show standards we	re not met ir	n samples	s collecte	ed in 19	998, 2000, 2001 and	d 2002.	Name was SOOS CREEK SYSTEM on 1998 listkk
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09B090 (Big Soos Creek near A and that 0% of the samples does not exceed the percentile criterion from 9 samples collected			metric me	ean of	41 does not exceed	d the criterion	
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09B090 (Big Soos Creek near A and that 0% of the samples does not exceed the percentile criterion from 4 samples collected			metric me	ean of	23 does not exceed	d the criterion	
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09B090 (Big Soos Creek near A and that 11% of the samples exceeds the percentile criterion from 9 samples collected durin							
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09B090 (Big Soos Creek near A and that 0% of the samples does not exceed the percentile criterion from 3 samples collected.			metric me	ean of	15 does not exceed	d the criterion	
9	15870	5	Y	BIG SOOS CREEK	VY43OI	18.07	22N	05E	03	Fecal Colifo	rm Water
				King County unpublished data from station L320 (Soos Creek RM 10.5) show excursions be	eyond the g	eometric	mean cri	iterion	in 1996.		Name was SOOS CREEK SYSTEM on 1998 listkk
9	15871	5	Υ	BIG SOOS CREEK	VY43OI	12.7	22N	05E	23	Fecal Colifo	rm Water
				King County unpublished data from station N320 (Soos Creek RM 8.2) show excursions be	eyond the pe	ercentile o	criterion i	n 1993	3 and 1997.		Name was SOOS CREEK SYSTEM on 1998 listkk
				King County unpublished data from station P320 (Soos Creek RM 7.5) show no excursions from samples taken between 1993-1997.	beyond eith	er the geo	ometric m	nean c	criterion or the perce	entile criterion	
				3 excursions beyond the upper criterion out of 43 samples (7%) collected at King County sta	tion P320 (	Soos Cre	ek RM 7.	.5) bet	ween 1/91 and 4/97	7.	
9	13162	5	N	COVINGTON CREEK	AU56VG	0.664	21N	05E	12	Fecal Colifo	rm Water
				King County unpublished data from station C320 (Covington Creek RM 0.5) show standard 2000.	ls were not	met each	year in s	sample	es collected in 1998	, 1999 and	
9	13156	5	Υ	CRISP CREEK	XM98DY	1.07	21N	06E	20	Fecal Colifo	rm Water
				King County unpublished data from station 321 (Crisp Creek RM 1.8) show standards were	not met eac	h year in	samples	collec	cted between 1998 a	and 2002.	
9	42309	5	N	DES MOINES CREEK	VX71MY	2.013	22N	04E	00	Connor	Water
3	42303	J	IN	Herrera Environmental Consultants, 2001., (submitted by Bob Sheckler, City of Des Moines 7/9/1995, 10/20/1995, 11/7/1995, 3/3/1996, 3/31/1996, 4/22/1996, 9/3/1996, 4/22/1997, and	on 3/15/200	04), statio	n DM-1 s	shows	10 samples collecte	<b>Copper</b> ed 12/8/1994,	vvater

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WRIA	Listing ID Cate	egory	98 List?	Waterbody Name	Location Ir	nformatio	n				Parameter	Medium
				Basis							Remarks	
9	42306	5	N	DES MOINES CREEK	VX71MY	2.013	22	N 04E	Ξ (	09	Dissolved oxygen	Water
				Herrera Environmental Consultants, 2001., (submitted by Bob Sheckler, City of Des Moines criterion; 2 samples in 1995, 2 samples in 1996, 2 samples in 1997, 3 samples in 1998, and			n DN	/I-1 shov	ws t	the following excee	dances of the	
9	42310	5	N	DES MOINES CREEK	VX71MY	0	22	N 04E	Ξ (	08	Dissolved oxygen	Water
				Herrera Environmental Consultants, 2001., (submitted by Bob Sheckler, City of Des Moines criterion; 2 samples in 1995, 2 samples in 1996, 3 samples in 1997, 1 sample in 1998, and 1			n DN	∕l-2 shov	ws t	the following exceed	dances of the	
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09C070 (Des Moines Cr nr Mou collected between 1993 - 2001 measured on this date: 94/07/20.	th) shows 1	excursio	ns b	eyond tl	he c	criterion out of 12 sa	amples	
9	42313	5	N	DES MOINES CREEK	VX71MY	2.677	22	N 04E	Ξ (	04	Dissolved oxygen	Water

Herrera Environmental Consultants, 2001., (submitted by Bob Sheckler, City of Des Moines on 3/15/2004), station DM-3 (mainstem) shows the following exceedances of the criterion; 2 samples in 1995, and 1 sample in 1996.

Herrera Environmental Consultants, 2001., (submitted by Bob Sheckler, City of Des Moines on 3/15/2004), station DM-5 (west tributary) shows the following exceedances of the criterion; 2 samples in 1995, and 2 samples in 1996.

During the assessment of data it was determined that WQ Policy 1-11 (updated 9/03) was overly restrictive for the number of years of data excursions needed to list for D.O. impairments. Based on a review of monitoring studies for DO statewide, it was determined that multiple (3 or more) excursions for at least two years of monitoring should be used as an alternative indicator that a waterbody continues

be impaired. (Braley, ECY/WQP, 2003)

9 12568 5 Y DES MOINES CREEK VX71MY 0 22N 04E 08 Fecal Coliform Water

to

Hallock (2004), Dept. of Ecology Ambient Monitoring Station 09C070(Des Moines Creek near Mouth) shows a geometric mean of 116.8 exceeds the criterion and that 4 of 9 samples (44%) exceeded the percentile criterion.

Hallock (2004) data was reassessed due to comment #0229 from Port of Seattle. Data was obtained from Ecology's Environmental Information Management (EIM) database.

Hallock (2001), Dept. of Ecology Ambient Monitoring Station 09C070 (Des Moines Creek near Mouth) shows a geometric mean of 67 exceeds the criterion and that 33% of the samples exceeds the percentile criterion from 9 samples collected during 1994.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09C070 (Des Moines Creek near Mouth) shows a geometric mean of 30 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 3 samples collected during 1993.

Herrera Environmental Consultants, 2001., (submitted by Bob Sheckler, City of Des Moines on 3/15/2004), station DM-2 shows 3 of 3 samples (100.0%) exceeded the percentile criterion; in 1995 a geometric mean of 1302.95 exceeded the criterion and 6 of 7 samples (85.7%) exceeded the percentile criterion; in 1996 a geometric mean of 278.14 exceeded the criterion and 5 of 8 samples (62.5%) exceeded the percentile criterion; in 1997 a geometric mean of 383.64 exceeded the criterion and 6 of 9 samples (66.7%) exceeded the percentile criterion; in 1998 a geometric mean of 477.19 exceeded the criterion and 3 of 5 samples (60.0%) exceeded the percentile criterion; in 1999 a geometric mean of 146.58 exceeded the criterion and 5 of 8 samples (62.5%) exceeded the percentile criterion.

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WRI	A Listing ID Ca	ategory	98 List?	Waterbody Name	Location I	nformatio	on			Parameter	Describe	Medium
				Basis							Remarks	
9	42307	5	N	DES MOINES CREEK	VX71MY	2.013	221	N 04E	<b>E</b> 09	Fecal Colifo	rm	Water
				Herrera Environmental Consultants, 2001., (submitted by Bob Sheckler, City of Des Moines 1245.10 exceeded the criterion and 6 of 7 samples (85.7%) exceeded the percentile criterion 8 samples (62.5%) exceeded the percentile criterion; in 1997 a geometric mean of 286.57 percentile criterion; in 1998 a geometric mean of 721.98 exceeded the criterion and 3 of 5 s mean of 90.41 exceeded the criterion and 2 of 8 samples (25.0%) exceeded the percentile of	n; in 1996 a exceeded th amples (60	a geomet ne criterio	ric me on and	an of 1 I 7 of 9	165.34 exceeded the camples (77.8%) exc	criterion and 5 on the ceded the		
9	42314	5	N	DES MOINES CREEK	VX71MY	2.677	221	N 04E	<b>≣ 04</b>	Fecal Colifo	rm	Water
				Herrera Environmental Consultants, 2001., (submitted by Bob Sheckler, City of Des Moines (66.7%) exceeded the percentile criterion.  Herrera Environmental Consultants, 2001., (submitted by Bob Sheckler, City of Des Moines (66.7%) exceeded the percentile criterion.		,.		,	,	•		
9	42308	5	N	DES MOINES CREEK	VX71MY	2.013	221	N 04E	<b>≡ 09</b>	Zinc		Water
				Herrera Environmental Consultants, 2001., (submitted by Bob Sheckler, City of Des Moines 9/3/1996 exceeded the chronic criterion.	on 3/15/200	04), statio	on DM	-1 sho	ws 2 samples collecte	ed 7/9/1995 and	I	
9	42352	5	N	DES MOINES CREEK, EAST TRIBUTARY	CL09EE	0.731	231	N 04E	≣ 33	Copper		Water
				Herrera Environmental Consultants, 2001., (submitted by Bob Sheckler, City of Des Moines collected 7/19/1995, 12/7/1995, and 3/27/1996 exceeded the chronic criterion.	on 3/15/200	04), statio	on DM	-6 (eas	st tributary) shows 3 s	amples		
9	42350	5	N	DES MOINES CREEK, EAST TRIBUTARY	CL09EE	0.731	231	N 04E	≣ 33	Dissolved o	xygen	Water
				Herrera Environmental Consultants, 2001., (submitted by Bob Sheckler, City of Des Moines exceedances of the criterion; 2 samples in 1995, and 1 sample in 1996.	on 3/15/200	04), statio	on DM	-6 (eas	st tributary) shows the	efollowing	Policy 1-11 (update number of years of impairments . Bas DO statewide, it was excursions for at le	ment of data it was determined that WQ ed 9/03) was overly restrictive for the f data excursions needed to list for D.O. sed on a review of monitoring studies for as determined that multiple (3 or more) east two years of monitoring should be tive indicator that a waterbody continues
to											be impaired. (Brale	ey, ECY/WQP, 2003)
9	42351	5	N	DES MOINES CREEK, EAST TRIBUTARY	CL09EE	0.731	231	N 04E	≣ 33	Fecal Colifo	rm	Water
				Herrera Environmental Consultants, 2001., (submitted by Bob Sheckler, City of Des Moines (66.7%) exceeded the percentile criterion.	on 3/15/200	04), statio	on DM	-6 (eas	st tributary) shows 2 o	of 3 samples		
9	12614	5	N	DOLLOFF LAKE	194FPO	21N	04E	10		Fecal Colifo	orm	Water
_				King County unpublished data from station A731 show a geometric mean of 59 cfu/100mL w unpublished data from station A731 show a geometric mean of 20 cfu/100mL with 0% exceeds						King County		

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WRIA	Listing ID Category	/ 98 List?	Waterbody Name	Location Ir	nformatio	า			Parameter	Medium
			Basis						Remarks	
9	14087 5	N	DUWAMISH WATERWAY AND RIVER	IG58VD	12.189	23N	04E	10	4,4'-DDD	Tissue
			Hopkins et al. 1985. show excursions beyond the National Toxic Rule criterion in a multiple sucker samples collected in 1984.	fish compo	site of ed	ble tiss	sue of I	Mountain whitefish ar	nd Bridelip	
9	14088 5	N	DUWAMISH WATERWAY AND RIVER	IG58VD	12.189	23N	04E	10	4,4'-DDE	Tissue
			Hopkins et al. 1985. show excursions beyond the National Toxic Rule criterion in a multiple sucker samples collected in 1984.	fish compo	site of ed	ble tiss	sue of I	Mountain whitefish ar	nd Bridelip	
9	14086 5	N	DUWAMISH WATERWAY AND RIVER	IG58VD	12.189	23N	04E	10	4,4'-DDT	Tissue
			Hopkins et al. 1985. show excursions beyond the National Toxic Rule criterion in a multiple sucker samples collected in 1984.	fish compo	site of ed	ble tiss	sue of I	Mountain whitefish ar	nd Bridelip	
9	14089 5	N	DUWAMISH WATERWAY AND RIVER	IG58VD	12.189	23N	04E	10	ALPHA-BHC	Tissue
			Hopkins et al. 1985. show excursions beyond the National Toxic Rule criterion in a multiple sucker samples collected in 1984.	fish compo	site of ed	ble tiss	sue of I	Mountain whitefish ar	nd Bridelip	
9	12702 5	N	DUWAMISH WATERWAY AND RIVER	DH90GX	1.756	24N	04E	18	Dissolved oxygen	Water
			King County unpublished data from station 305 (Duwamish West Waterway) show excursion and 2001.	ns beyond th	ne dissolv	ed oxy(	gen cri	terion in all years be	tween 1998	
9	12703 5	N	DUWAMISH WATERWAY AND RIVER	IG58VD	7.779	24N	04E	33	Dissolved oxygen	Water
			King County unpublished data from station 307 (Duwamish River RM 4.1) show excursions to 2001.	peyond the	dissolved	oxyger	n criter	ion in all years betwe	een 1998 and	
9	36171 5	N	DUWAMISH WATERWAY AND RIVER	IG58VD	0	24N	04E	07	PAHs	Tissue
			Myers, et al. 1998. show English sole with high prevalences of hepatic necoplasms and preconcentrations and levels of CYPIA expressions at PAH contaminated sites. Myers et al. 19 precursors to the development of hepatocellular and billiary necoplasms in fish exposed to x	995. show f	ocal legic	ns and				
9	7467 5	Υ	DUWAMISH WATERWAY AND RIVER	IG58VD	1.63	24N	04E	18	рН	Water
			Muckleshoot Indian Tribal data (submitted by Karen Walter on 3/1/96) show 3 excursions be 1994 and 1995.	yond the cri	terion out	of 3 sa	amples	at Station 1 (West K	ellogg) during High pH	

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WRIA	Listing ID Ca	tegory	98 List?	Waterbody Name Basis	Location	Informatio	n			Parameter	Remarks	Medium
9	7468	5	Y	DUWAMISH WATERWAY AND RIVER	IG58VD	3.281			19	pH		Water
				Muckleshoot Indian Tribal data (submitted by Karen Walter on 3/1/96) show 3 excursions 1994 and 1995;	beyond the c	riterion ou	t of 3 s	amples	at Station 2 (East	Kellogg) during	High pH	
				Muckleshoot Indian Tribal data (submitted by Karen Walter on 3/1/96) show 3 excursions during 1994 and 1995.	beyond the c	riterion ou	t of 3 s	amples	at Station 3 (Cem	ent Triangle)		
9	7470	5	Υ	DUWAMISH WATERWAY AND RIVER	IG58VD	5.034	24N	04E	30	рН		Water
				Muckleshoot Indian Tribal data (submitted by Karen Walter on 3/1/96) show 3 excursions during 1994 and 1995.	beyond the c	riterion ou	t of 3 sa	amples	s at Station 4 (Oil S	lick Beach)	High pH	
9	7471	5	Υ	DUWAMISH WATERWAY AND RIVER	IG58VD	5.565	24N	04E	29	рН		Water
				Muckleshoot Indian Tribal data (submitted by Karen Walter on 3/1/96) show 5 excursions during 1994 and 1995.	beyond the c	riterion ou	t of 5 sa	amples	at Station 5 (Chief	f Seattle Beach)	High pH	
9	7472	5	Υ	DUWAMISH WATERWAY AND RIVER	IG58VD	7.779	24N	04E	33	рН		Water
				Muckleshoot Indian Tribal data (submitted by Karen Walter on 3/1/96) show 3 excursions 1994 and 1995.	beyond the c	riterion ou	t of 4 s	amples	at Station 6 (Smel	It Beach) during	High pH	
				King County unpublished data from station 307 show 2 excursions beyond the criteria out	of 57 all sam	ples colle	cted be	tween	1998 and 2002.			
9	7474	5	Υ	DUWAMISH WATERWAY AND RIVER	IG58VD	11.527	23N	04E	09	рН		Water
				Muckleshoot Indian Tribal data (submitted by Karen Walter on $3/1/96$ ) show 3 excursions during 1994 and 1995.	beyond the c	riterion ou	t of 5 s	amples	at Station 8 (Trima	aran Mudflats)	High pH	
9	7475	5	Υ	DUWAMISH WATERWAY AND RIVER	IG58VD	15.021	23N	04E	11	рН		Water
				Muckleshoot Indian Tribal data (submitted by Karen Walter on 3/1/96) show 8 excursions 1994 and 1995.	beyond the c	riterion ou	t of 8 s	amples	at Station 9 (Dairy	Farm) during	High pH	
9	8192	5	Υ	DUWAMISH WATERWAY AND RIVER	DH90GX	0	24N	03E	12	Total PCBs		Tissue
				Johnson and Davis, 1996. , excursion beyond the National Toxics Rule criterion calculates shore of west waterway, just upstream of Fisher Mills.	ed for tissue i	n mussel	sample	s colle	cted in 1995 from s	ite on east		
9	14090	5	N	DUWAMISH WATERWAY AND RIVER	IG58VD	12.189	23N	04E	10	Total PCBs		Tissue
				Hopkins et al. 1985. show excursions beyond the National Toxic Rule criterion in a multiple support of in 1984.	ole fish comp	osite of ed	lible tiss	sue of	Mountain whitefish	and Bridelip		

sucker samples collected in 1984.

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Remarks

## 33698 Ν **DUWAMISH WATERWAY AND RIVER** 5

3.281 24N 04E 19 IG58VD **Total PCBs** 

47.595

122.365

**Fecal Coliform** 

Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was exceeded in a composite of more than 5 muscle samples collected in 1992 and 1995 from English sole (Pleuronectes vetulus) samples from station DUWAMISH. Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was exceeded in a composite of more than 5 muscle samples collected in 1997 from English sole (Pleuronectes vetulus) samples from station DUWAMISH. Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was exceeded in a composite of more than 5 muscle samples collected in 1992-1996 from coho salmon (Oncorhynchus kisutch) samples from station DUWAMISH. Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was exceeded in a composite of 4 muscle samples collected in 1998 and 2000 from coho salmon (Oncorhynchus kisutch) samples from station DUWAMISH. Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was exceeded in a composite of more than 5 muscle samples collected in 1992-1996 from chinook salmon (Oncorhynchus tshawytscha) samples from station DUWAMISH.

# **ELLIOTT BAY** 15708

Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station ELB015 (Elliott Bay - E. of Duwamish Head) shows a geometric mean of 3 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 2 samples collected during 1991. Newton et al. (1998) Dept. of Ecoloav Ambient Monitoring Station Station Station ELB015 (Elliott Bay - E. of Duwamish Head) shows a geometric mean of 5 does not exceed the criterion and that 0%

390KRD 47122F3J6

of the samples does not exceed the percentile criterion from 9 samples collected during 1992. Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station ELB015 (Elliott Bay - E. of Duwamish Head) shows a geometric mean of 4 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 7 samples collected during 1993. Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station ELB015 (Elliott Bay - E. of Duwamish Head) shows a geometric mean of 10 does not exceed the criterion and that 29% of the samples exceeds the percentile criterion from 7 samples collected during 1994. Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station ELB015 (Elliott Bay - E. of Duwamish Head) shows a geometric mean of 7 does not exceed the criterion and that 12% of the samples exceeds the percentile criterion from 8 samples collected during 1995, with only 1 sample that exceeds the percentile criterion. Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station ELB015 (Elliott Bay - E. of Duwamish Head) shows a geometric mean of 18 exceeds the criterion and that 33% of the samples exceeds the percentile criterion from 6 samples collected during 1996. Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station ELB015 (Elliott Bay - E. of Duwamish Head) shows a geometric mean of 8 does not exceed the criterion and that 12% of the samples exceed the percentile criterion from 8 samples collected during 1997. Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station ELB015 (Elliott Bay - E. of Duwamish Head) shows a geometric mean of 8 does not exceed the criterion and that 25% of the samples exceed the percentile criterion from 4 samples collected during 1998. Newton et al. (1998) Dept. of Ecology Ambient Monitoring Station Station ELB015 (Elliott Bay - E. of Duwamish Head) shows a geometric mean of 2 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 7

samples collected during 1999.

### 15802 5 Υ **ELLIOTT BAY**

390KRD 47122G3C6 47.625 122.365 **Fecal Coliform** 

King County data (submitted by Kimberle Stark on 4/15/04) station LTAB01 (inner Elliott Bay) shows 3 of 12 samples (25.0%) exceeded the percentile criterion in vear 2003.

Seattle-Metro unpublished data from station LTAB01 exceeded the geometric mean criterion each year between 1988 and 1991.

### 15803 5 Υ **ELLIOTT BAY**

390KRD 47122F3J4 47.595 122.345 **Fecal Coliform** 

Water

Tissue

Water

Water

Seattle-Metro unpublished data from station LTEH02 exceeded the geometric mean criterion each year between 1987 and 1991.

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WRIA	Listing ID C	ategory	98 List?	Waterbody Name	Location I	nformation	on				Parameter	Medium
				Basis								Remarks
9	42494	5	N	FAUNTLEROY COVE	390KRD	47122	F3C9	47.5	25	122.395	Fecal Colifo	rm Water
				King County data (submitted by Kimberle Stark on 4/15/04) station LSVW01 (Fauntleroy Co in year 2003.	ve) shows 2	of 11 sa	amples	(18.2%	) exce	eded the perc	entile criterion	
9	6655	5	Υ	FAUNTLEROY CREEK	BS29QB	0	24N	03E	99		Fecal Colifo	rm Water
				Kendra, 1989. Multiple excursions beyond the upper criterion at the mouth in 1988.								Data is only available in hardcopy format. The water segment is listed as Category 5 based on the 1998 assessment.
9	6656	5	Υ	FAUNTLEROY CREEK	BS29QB	0.013	24N	03E	35		Fecal Colifo	rm Water
				Kendra, 1989. Multiple excursions beyond the upper criterion at the mouth in 1988.								Data is only available in hardcopy format. The water segment is listed as Category 5 based on the 1998 assessment.
9	6336	5	N	FENWICK LAKE	669TAC	22N	04E 2	26			Total Phosp	horus Water
a du patri				Completed Phase I Federal Clean Lakes Restoration Project in 1991- Problems Encountered phosphorus recycling, storm water, shoreline erosion.  King County Volunteer Citizen Monitoring Program unpublished data show show summer moutrient criterion in 2001.	_	•						Active Phase II Federal Clean Lakes Restoration Project: Entranco, 1991; Control measures underway based on the Phase I study -phosphorus precipitation/inactivation, hypolimnetic aeration, watershed nutrient management (ordinances, sediment reductions, passive nutrient attenuation), structural storm water controls, public
educatio	л.											TMDL based on Phase IB Restoration Project submitted on 3/9/92; EPA approved TMDL on 1/13/93. Onwumere (2002) determined that the goals set by the TMDL were not being achieved.
9	10721	5	N	FIVEMILE LAKE	919NRP	21N	04E 2	27			Fecal Colifo	rm Water
				King County unpublished data from station A735 show a geometric mean of 123 cfu/100mL unpublished data from station A735 show a geometric mean of 23 cfu/100mL with 0% exceeds							8. King County	
				King County unpublished data from station A735SB show a geometric mean of 59 cfu/100m unpublished data from station A735SB show a geometric mean of 14 cfu/100mL with 6% expenses the country of the coun							001. King Count	у
9	7476	5	Υ	GALE CREEK	ML05JG	0	21N	08E	36		Temperature	e Water
				Data collected by the Muckleshoot Indian Tribe (submitted by Chantal Stevens on 10/31/97) during 8/97 and 9/97 at Gale Creek RM 0.1.	show 26 ex	cursions	s beyon	d the c	riterion	out of 60 san	nples (43%)	Continuous temperature measurements were taken, but results reported as single day maximums. Category 5 listing is continued from 1998 assessment based on multiple

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excursions from continuous monitoring.

W	'RIA	Listing ID Cate	egory	98 List?	Waterbody Name	Location Information	Parameter	Medium
					Basis		Remarks	
	9	10812	5	N	GREEN RIVER	YD05HE 1.024 23N 04E 24	Dissolved oxygen	Water
					Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09A080 (GREE collected between 1993 - 2001 measured on these dates: 94/07/20, 95/07/19	,	ut of 61 samples	
					King County unpublished data from station 3106 (Green RM 12.5) show exc	cursions beyond the dissolved oxygen criterion in 1998, 1999, 2000	, 2001 and 2002.	
					King County unpublished data from station 311 (Green River RM 1.0) show 2002.	excursions beyond the dissolved oxygen criterion in years 1998, 20	l00, 2001 and	
	9	12708	5	N	GREEN RIVER King County unpublished data from station B319 (Green RM 41.5) show exc	YD05HE 48.857 21N 06E 28 cursions beyond the dissolved oxygen criterion in 1998, 1999, and 2	Dissolved oxygen	Water

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### 12569 5 Υ **GREEN RIVER**

YD05HE 1.024 23N 04E 24

**Fecal Coliform** 

Water

Medium

Hallock (2004), Dept. of Ecology ambient station 09A080 shows 2 of 12 samples (16.7%) in year 2002 exceeded the percentile criterion.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09A080 (AT 405 AND SOUTHCENTER BLVD, ON INTERUR) shows a geometric mean of 37 does not exceed the criterion and that 10% of the samples does not exceed the percentile criterion from 10 samples collected during 2001.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09A080 (AT 405 AND SOUTHCENTER BLVD. ON INTERUR) shows a geometric mean of 27 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 12 samples collected during 2000.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09A080 (AT 405 AND SOUTHCENTER BLVD. ON INTERUR) shows a geometric mean of 38 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 13 samples collected during 1999.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09A080 (AT 405 AND SOUTHCENTER BLVD. ON INTERUR) shows a geometric mean of 44 does not exceed the criterion and that 20% of the samples exceeds the percentile criterion from 15 samples collected during 1998.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09A080 (AT 405 AND SOUTHCENTER BLVD. ON INTERUR) shows a geometric mean of 103 exceeds the criterion and that 17% of the samples exceeds the percentile criterion from 12 samples collected during 1997.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09A080 (AT 405 AND SOUTHCENTER BLVD. ON INTERUR) shows a geometric mean of 138 exceeds the criterion and that 20% of the samples exceeds the percentile criterion from 5 samples collected during 1996.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09A080 (AT 405 AND SOUTHCENTER BLVD. ON INTERUR) shows a geometric mean of 76 does not exceed the criterion and that 25% of the samples exceeds the percentile criterion from 12 samples collected during 1995.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09A080 (AT 405 AND SOUTHCENTER BLVD. ON INTERUR) shows a geometric mean of 120 exceeds the criterion and that 33% of the samples exceeds the percentile criterion from 12 samples collected during 1994.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09A080 (AT 405 AND SOUTHCENTER BLVD. ON INTERUR) shows a geometric mean of 74 does not exceed the criterion and that 25% of the samples exceeds the percentile criterion from 12 samples collected during 1993.

King County unpublished data from station 311 (Green River RM 1.0) show standards were not met in samples collected during 1998, 2001 and 2002.

King County unpublished data from station 3106 (Green RM 12.5) show standards were not met each year in samples collected between 1998 and 2002.

### 9 13159 5 Υ **GREEN RIVER**

YD05HE 36.692 21N 05E 21

**Fecal Coliform** 

Water

King County unpublished data from station A319 (Green RM 34.) show standards were not met in 1998 in samples collected between 1998 and 2002.

Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09A130 (Green R. above Big Soos Creek near Auburn) shows a geometric mean of 8 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 3 samples collected during 1993.: Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09A130 (Green R. above Big Soos Creek near Auburn) shows a geometric mean of 26 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 7 samples collected during 1994.

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WRIA	Listing ID Ca	tegory	98 List?	Waterbody Name Basis	Location I	nformatio	า			Parameter	Medium Remarks
9	16703	5	Y	GREEN RIVER  Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09A090 (Green R. at 212th St. criterion and that 33% of the samples exceeds the percentile criterion from 3 samples collect Monitoring Station 09A090 (Green R. at 212th St. near Kent) shows a geometric mean of 1 percentile criterion from 9 samples collected during 1994.	cted during 1	shows a (	jeometri allock (2	ic mea 001) [	an of 80 does not exc Dept. of Ecology Amb	pient	rm Water
9	6574	5	N	GREEN RIVER  Dept. of Ecology unpublished data from core ambient monitoring station 09A190 (AT BRIDG daily maximum values of 18.6 for mid-week 10 August 2001.; Hallock (2001) Dept. of Ecolo KANASKAT) shows 0 excursions beyond the criterion out of 63 samples collected between Raforth, et al. 2002. show no excursions beyond the criterion from samples collected in 2009.	ogy Ambient 1993 - 2001	1BERLAN Monitorin 1	D-PALM	IER R	D.AT K) shows a 7-		e Water
9	7037	5	Y	GREEN RIVER King County unpublished data from station 3106 (Green RM 12.5) show temperature criterian County unpublished data from station 311 (Green River RM 1.0) show temperature criterian Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09A080 (GREEN RIVER AT To collected between 1993 - 2001 measured on these dates: 94/07/20, 94/08/17, 95/07/19, 95/07	terion was e	eeded in a exceeded in nows 5 ex	n all yea	betwe	een 1998 and 2002.		e Water
9	7043	5	N	GREEN RIVER King County unpublished data from station B319 (Green RM 41.5) show temperature criteri	YD05HE on was exce					Temperature	e Water
9	7478	5	Y	GREEN RIVER Caldwell, 1994., multiple excursions beyond the criterion at RM 20 in 1992.	FK76HV	0	22N	04E	15	Temperature	Continuous temperature measurements were taken, but results reported as single day maximums. Category 5 listing is continued from 1998 assessment based on multiple excursions from continuous monitoring.
9	7479	5	Y	GREEN RIVER Caldwell, 1994., multiple excursions beyond the criterion at RM 27 in 1992.	YD05HE	22.702	22N	05E	30	Temperature	Continuous temperature measurements were taken, but results reported as single day maximums. Category 5 listing is continued from 1998 assessment based on multiple excursions from continuous monitoring.
9	7480	5	Y	GREEN RIVER Caldwell, 1994., multiple excursions beyond the criterion at RM 35 in 1992.	AJ33YB	0	21N	05E	22	Temperature	Continuous temperature measurements were taken, but results reported as single day maximums. Category 5 listing is continued from 1998 assessment based on multiple

excursions from continuous monitoring.

WRI	A L	Listing ID Cate	egory	98 List?	Waterbody Name Basis	Location I	nform	nation				Parameter	Medium Remarks
g	)	7481	5	Υ	GREEN RIVER	YD05HE	47.	.014	21N	06E	29	Temperature	e Water
					Caldwell, 1994, multiple excursions beyond the criterion at RM 41.5 in 1992.								The daily maximum excursions are for one year only and do not meet the WQ Program Policy 1-11 (updated 9/02) for showing persistent temperature impairment. Listing will be placed in waters of concern category until further study and monitoring indicates the status of the water.
ç	)	7482	5	Υ	GREEN RIVER	AB62OX	0.0	83	21N	08E	18	Temperature	e Water
					Caldwell, 1994., 37 excursions beyond the criterion at RM 60.8 during 1992.								Continuous temperature measurements were taken, but results reported as single day maximums. Category 5 listir is continued from 1998 assessment based on multiple excursions from continuous monitoring.
ç	)	7483	5	Υ	GREEN RIVER	YD05HE	84.	.73	21N	08E	28	Temperature	e Water
					Caldwell, 1994., 42 excursions beyond the criterion at RM 64.5 during 1992.							·	Continuous temperature measurements were taken, but results reported as single day maximums. Category 5 listir is continued from 1998 assessment based on multiple excursions from continuous monitoring.
ç	)	7484	5	Υ	HICKS (GARRETT) LAKE	322NQY	231	N 04	1E (	)6		Fecal Colifor	rm Water
impler	non	tod			King County unpublished data from station A745 show a geometric mean of 60 cfu/100mL w unpublished data from station A745 show a geometric mean of 260 cfu/100mL with 100% expenses a second control of the control of							King County	Completed Phase II Federal Clean Lakes Project in1987: Gendron and Pedersen, 1987. Control measures
impiei	iieii	ieu			Completed Phase I Federal Clean Lakes Restoration Project in 1982- Problems Encountered phosphorus recycling, storm water, low transparency, fecal coliform bacteria.	d: Blue-gree	en alç	gae, h	igh tu	rbidity,	low dissolved oxyge	en, sediment	based on the phase I Study - phosphorus precipitation/inactivation, dilution/flushing, structural storm water controls, public education.
													Fecal coliform data were previously submitted only in hardcopy form. The water segment is listed as Category 5 based on the 1998 assessment.
ç	)	6340	5	Υ	HICKS (GARRETT) LAKE	322NQY	231	N 04	1E (	)6		Total Phospi	horus Water
					Completed Phase I Federal Clean Lakes Restoration Project in 1982- Problems Encountered phosphorus recycling, storm water, low transparency, fecal coliform bacteria.	d: Blue-gree	en alç	gae, h	igh tu	rbidity,	low dissolved oxyge	en, sediment	Completed Phase II Federal Clean Lakes Project in1987: Gendron and Pedersen, 1987. Control measures
impler	nen	ted			King County Volunteer Citizen Monitoring Program unpublished data show show summer menutrient criterion in 1998.	ean epilimn	etic t	otal pł	hosph	orus e	xceeded the water q	uality standards	based on the phase I Study - phosphorus s precipitation/inactivation, dilution/flushing, structural storm water controls, public education.
ç	)	13815	5	N	HILL (MILL) CREEK	BI99NR	0		22N	04E	25	Copper	Water
					King County unpublished data from station A315 shows the chronic criterion was exceeded of	on 6 Decem	ber '	1999 a	and 12	2 June	2000.		

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	WRIA	Listing ID Cate	gory	98 List?	Waterbody Name Basis	Location I	nforma	ition			F	Parameter	Remarks	Medium
to	9	7488	5	Y	HILL (MILL) CREEK King County, 1993, 3 excursions out of 7 samples (43%) beyond the criterion at station 304	<b>Bi99NR</b> (RM 2.2) d	<b>4.18</b> luring 1		<b>04E</b> 1993.		01	Dissolved o	During the assessm Policy 1-11 (update number of years of impairments . Base DO statewide, it was excursions for at lea	Water ent of data it was determined that WQ d 9/03) was overly restrictive for the data excursions needed to list for D.O. d on a review of monitoring studies for s determined that multiple (3 or more) list two years of monitoring should be ve indicator that a waterbody continues of ECY/WQP, 2003)
	9	12707	5	Y	HILL (MILL) CREEK King County unpublished data from station A315 (Hill Creek RM 0.3) show excursions beyo 2002.	BI99NR nd the diss	<b>0</b> solved o	<b>22N</b> oxygen d		E 2 on in		Dissolved ox 2001 and	xygen	Water
to	9	15811	5	Y	HILL (MILL) CREEK King County, 1993, 10 excursions out of 10 samples (100%) beyond the criterion at station 3	<b>BI99NR</b> 302 (RM 1.	<b>0.44</b> ;					Dissolved ox	During the assessm Policy 1-11 (update number of years of impairments . Base DO statewide, it was excursions for at lea	ent of data it was determined that WQ d 9/03) was overly restrictive for the data excursions needed to list for D.O. d on a review of monitoring studies for s determined that multiple (3 or more) ast two years of monitoring should be ve indicator that a waterbody continues of the control of
to	9	15814	5	Y	HILL (MILL) CREEK King County, 1993, 9 excursions out of 10 samples (90%) beyond the criterion at station 303	<b>BI99NR</b> 3 (RM 1.4)	<b>2.128</b> during		_	E 3	35	Dissolved ox	During the assessm Policy 1-11 (update number of years of impairments . Base DO statewide, it was excursions for at lea	water ent of data it was determined that WQ dd 9/03) was overly restrictive for the data excursions needed to list for D.O. d on a review of monitoring studies for s determined that multiple (3 or more) list two years of monitoring should be ve indicator that a waterbody continues of the control of the co
	9	7485	5	Y	HILL (MILL) CREEK  King County, 1993, 9 excursions beyond the upper criterion at station 201 (RM 0.2) during 1 King County unpublished data from station A315 (Hill Creek RM 0.3) show standards were King County, 1993, 9 excursions beyond the upper criterion at station 201 (RM 0.2) during 1	not met ea	993. ch yeai	<b>22N</b> r in samp		E 2		Fecal Colifor	Fecal coliform data	Water were previously submitted only in water segment is listed as Category 5 assessment.

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WRI	A Li	isting ID Cate	gory	98 List?	Waterbody Name Basis	Location	Inforr	nation				Parameter	Medi Remarks	ium
g	•	7486	5	Y	HILL (MILL) CREEK King County, 1993, 6 excursions beyond the upper criterion at station 304 (RM 2.2) during 1	<b>BI99NR</b> 992 and 19	<b>4.</b> 1 993.	18	21N	04E	01	Fecal Colifo	Fecal coliform data were	previously submitted only in er segment is listed as Category 5
g	)	15815	5	Y	HILL (MILL) CREEK King County, 1993, 12 excursions beyond the upper criterion at station 302 (RM 1.0) during	<b>BI99NR</b> 1992 and	•-		22N	04E	26	Fecal Colifo	Fecal coliform data were	previously submitted only in er segment is listed as Category 5
g	)	15817	5	Y	HILL (MILL) CREEK King County, 1993, 6 excursions beyond the upper criterion at station 305 (RM 7.5) during 1	<b>BI99NR</b> 992 and 1		.803	21N	04E	15	Fecal Colifo	Fecal coliform data were	previously submitted only in er segment is listed as Category 5
g	)	15820	5	Y	HILL (MILL) CREEK King County, 1993, 12 excursions beyond the upper criterion at station 303 (RM 1.4) during	<b>BI99NR</b> 1992 and 1			22N	04E	35	Fecal Colifo	Fecal coliform data were	previously submitted only in er segment is listed as Category 5
g	)	7041	5	Y	HILL (MILL) CREEK  King County unpublished data from station A315 (Hill Creek RM 0.3) show temperature crit  King County, 1993, 2 excursions out of 9 samples (22%) beyond the criterion at station 201							Temperature	e Wate	er
<b>g</b> kk	)	13164	5	Y	JENKINS CREEK  King County unpublished data from station D320 (Jenkins Creek RM 2.2) show standards we	NP20EM	1.4	454	22N	05E		Fecal Colifo		er S CREEK SYSTEM on 1998 list
g	)	15835	5	Y	JOE'S CREEK Seattle-Metro unpublished data from station A350 (at Dash Point Road) show the percentile	IN34MD criterion w		-	<b>21N</b> in 198			Fecal Colifo		er GV05FS - 0.000 to IN34MD - 0.076
g	)	10724	5	N	KILLARNEY (NORTH ARM) LAKE  King County unpublished data from station A741 show a geometric mean of 300 cfu/100mL vunpublished data from station A741 show a geometric mean of 24 cfu/100mL with 0% exceeds		exce	eding		- ercentil		Fecal Colifo 98. King Count		er

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WRIA	Listing ID Catego	ory 9	98 List?	Waterbody Name Basis	Location Ir	nformatio	n		Parameter	Remarks	Medium
9	15858	5	Y	LITTLE SOOS CREEK King County unpublished data from station U320 (Little Soos Creek RM 4.7) show excursions	TI91MT beyond th	7.675 e criterio			Dissolved ox	, ,	Water CREEK SYSTEM on 1998 listkk
9	13167	5	Y	<b>LITTLE SOOS CREEK</b> King County unpublished data from station G320 (Little Soos Creek RM 0.3) show standards 2002.	TI91MT were not m	<b>0.479</b> net each y		<b>05E</b> sample	Fecal Colifor 1998 and		Water CREEK SYSTEM in 1998 listkk
9	15859	5	Y	LITTLE SOOS CREEK King County unpublished data from station U320 (Little Soos Creek RM 4.7) show excursions	TI91MT beyond th	<b>7.675</b> e geome		<b>05E</b> an crite	Fecal Colifor		Water CREEK SYSTEM on 1998 listkk
9	7046	5	N	LITTLE SOOS CREEK King County unpublished data from station G320 (Little Soos Creek RM 0.3) show temperate	TI91MT ure criterio	<b>0.479</b> n was exc		<b>05E</b> in year	<b>Temperature</b> 01 and 2002.		Water
9	15862	5	N	LITTLE SOOS CREEK King County unpublished data from station T320 (Little Soos Creek RM 3.2)show excursions	TI91MT beyond the	2.809 criterion		<b>05E</b> 4, 1995	 Temperature		Water
9	15831	5	Y	LITTLE SOOSETTE CREEK King County unpublished data from station Y320 (Little Soosette Creek RM 3.9) show excursi	<b>GS67LK</b> ions beyon			<b>05E</b> 1995 a	Dissolved ox	Name was SOOS C During the assessm Policy 1-11 (update	Water CREEK SYSTEM on 1998 listkk nent of data it was determined that WQ d 9/03) was overly restrictive for the data excursions needed to list for D.O.
DO										statewide, it was de excursions for at lea	d on a review of monitoring studies for etermined that multiple (3 or more) ast two years of monitoring should be live indicator that a waterbody continues
to										be impaired. (Brale)	y, ECY/WQP, 2003)
9	15836	5	Y	LITTLE SOOSETTE CREEK  King County unpublished data from station X320 (Little Soosette Creek RM 3.1) show excursion	HH34YJ ions beyon			<b>05E</b> 1994,	 Dissolved ox	, ,	Water CREEK SYSTEM on 1998 listkk
9	15832	5	Y	LITTLE SOOSETTE CREEK  King County unpublished data from station Y320 (Little Soosette Creek RM 3.9) show excursion	GS67LK ions beyon	_		<b>05E</b> mean c	Fecal Colifor 6, and 1997.		Water CREEK SYSTEM on 1998 listkk

WRIA	Listing ID Ca	tegory	98 List?	Waterbody Name	Location Ir	nformatio	n			Parameter		Medium
				Basis							Remarks	
_		_										
9	15837	5	Υ	LITTLE SOOSETTE CREEK	HH34YJ			05E		Fecal Colifo		Water
				King County unpublished data from station X320 (Little Soosette Creek RM 3.1)show excurs and 1997.	ions beyond	the geo	metric	mean c	riterion in all years b	etween 1994	Name was SOOS (	CREEK SYSTEM on 1998 listkk
9	15849	5	Υ	LITTLE SOOSETTE CREEK	RX82DV	0	21N	05E	03	Fecal Colifo	rm	Water
				King County unpublished data from station V320 (Little Soosette Creek RM 1.6) show excurs	sions beyon	d the geo	metric	mean	criterion in 1993, 199	4 and 1997.	Name was SOOS (	CREEK SYSTEM on 1998 listkk
9	15852	5	N	LONGFELLOW CREEK	SM45HV	0.788	24N	03E	24	Dissolved of	xygen	Water
				King County unpublished data from station J370 (Longfellow Creek RM 1.1 at Brandon Streand 1995.	eet SW Brid	ge) show	excurs	sions be	eyond the criterion in	1993, 1994,		
9	7490	5	N	LONGFELLOW CREEK	SM45HV	0.788	24N	03E	24	Fecal Colifo	rm	Water
				Hallock (2004), Dept. of Ecology ambient station 09J090 shows 3 of 4 samples (75%) in year	r 2003 exce	eded the	percei	ntile cri	terion.			
				U.S.Geological Survey data from NWIS database station 12113488 (Longfellow Cr @ SW Bi criterion and that 100% of the samples exceeds the percentile criterion from 1 samples college.			ttle) sh	ows a g	geometric mean of 62	20 exceeds the		
				King County unpublished data from station K370 (Longfellow Creek RM 1.5 at SW Graham S	Street) show	s 1 samp	ole on 4	190 cfu	/100mL on 28 Decen	nber 1995.		
				King County unpublished data from station J370 (Longfellow Creek RM 1.1 at Brandon Street year between 1992 and 1996.	et SW Bridg	e) show t	he geo	metric	mean criterion was e	xceeded each		
				Longfellow Creek Watershed Management Committee, 1992, exceeds the geometric mean of	criterion at s	tation LF	C24 (S	W Find	llay and 26th Ave SV	V) during 1990		
9	7491	5	Υ	LONGFELLOW CREEK	SM45HV	0	24N	03E	12	Fecal Colifo		Water
3	7431	J	•	Longfellow Creek Watershed Management Committee, 1992., exceeds the geometric mean		-					1111	water
				Andover near the fish ladder) during 1990. King County unpublished data from station C370 (Longfellow Creek RM 0.5 at SW Yancy Stebetween 1998 and 2002.			`					
9	42342	5	N	MASSEY CREEK	RE26YR	0	22N	04E	16	Copper		Water
				Herrera Environmental Consultants, 2001., (submitted by Bob Sheckler, City of Des Moines 7/9/1995, 10/20/1995, 4/22/1996, 4/23/1998, 10/27/1999, and 11/5/1999 exceeded the chron	on 3/15/200							
9	42348	5	N	MASSEY CREEK	ER96XL	0.092	22N	04E	17	Copper		Water

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Herrera Environmental Consultants, 2001., (submitted by Bob Sheckler, City of Des Moines on 3/15/2004), station MA-3 shows 3 samples collected 11/7/1995, 3/31/1996, and 10/27/1999 exceeded the chronic criterion.

WRIA	Listing ID Cate	egory	98 List?	Waterbody Name	Location Information	Parameter	Medium
				Basis			Remarks
9	42343	5	N	MASSEY CREEK	ER96XL 1.372 22N 04E	E 16 Dissolved	oxygen Water
				Herrera Environmental Consultants, 2001., (submitted by Bob Sheckler, City of Des Noriterion; 2 samples in 1995, 2 samples in 1996, 2 samples in 1997, 1 sample in 1998		vs the following exceedances of the	€
9	42346	5	N	MASSEY CREEK	ER96XL 0.092 22N 04E	E 17 Dissolved	oxygen Water
				Herrera Environmental Consultants, 2001., (submitted by Bob Sheckler, City of Des Noriterion; 2 samples in 1995, 3 samples in 1996, 3 samples in 1997, 3 samples in 1997.		vs the following exceedances of the	9
9	42353	5	N	MASSEY CREEK	RE26YR 0 22N 04E	E 16 Dissolved	oxygen Water
				Herrera Environmental Consultants, 2001., (submitted by Bob Sheckler, City of Des Noriterion; 2 samples in 1995, 2 samples in 1996, 3 samples in 1997, 3 samples in 1996.		vs the following exceedances of the	€
9	42340	5	N	MASSEY CREEK	RE26YR 0 22N 04E	16 Fecal Colif	form Water
				Herrera Environmental Consultants, 2001., (submitted by Bob Sheckler, City of Des M the percentile criterion; in 1995 a geometric mean of 751.32 exceeded the criterion a geometric mean of 257.08 exceeded the criterion and 6 of 8 samples (75.0%) exceed the criterion and 6 of 9 samples (66.7%) exceeded the percentile criterion; in 1998 a (60.0%) exceeded the percentile criterion; in 1999 a geometric mean of 216.53 exceed criterion.	d 6 of 7 samples (85.7%) exceeded the d the percentile criterion; in 1997 a ger cometric mean of 670.57 exceeded the	e percentile criterion; in 1996 a ometric mean of 209.35 exceeded e criterion and 3 of 5 samples	
9	42344	5	N	MASSEY CREEK	ER96XL 1.372 22N 04E	16 Fecal Colif	form Water
				Herrera Environmental Consultants, 2001., (submitted by Bob Sheckler, City of Des M the percentile criterion; in 1995 a geometric mean of 1133.12 exceeded the criterion geometric mean of 561.99 exceeded the criterion and 7 of 8 samples (87.5%) exceed the criterion and 7 of 9 samples (77.8%) exceeded the percentile criterion; in 1998 a (100.0%) exceeded the percentile criterion; in 1999 a geometric mean of 470.40 excertierion.	nd 6 of 7 samples (85.7%) exceeded the the percentile criterion; in 1997 a geometric mean of 981.00 exceeded the	the percentile criterion; in 1996 a ometric mean of 460.70 exceeded a criterion and 5 of 5 samples	
9	42347	5	N	MASSEY CREEK	ER96XL 0.092 22N 04E	E 17 Fecal Colif	form Water
				Herrera Environmental Consultants, 2001., (submitted by Bob Sheckler, City of Des M the percentile criterion; in 1995 a geometric mean of 1006.05 exceeded the criterion geometric mean of 945.20 exceeded the criterion and 8 of 8 samples (100.0%) excee the criterion and 6 of 9 samples (66.7%) exceeded the percentile criterion; in 1998 a (80.0%) exceeded the percentile criterion; in 1999 a geometric mean of 523.57 exceed criterion.	nd 6 of 7 samples (85.7%) exceeded the the percentile criterion; in 1997 a greenetric mean of 702.39 exceeded the	the percentile criterion; in 1996 a seometric mean of 235.49 exceeded by criterion and 4 of 5 samples	
9	42341	5	N	MASSEY CREEK	RE26YR 0 22N 04E	: 16 Zinc	Water
				Herrera Environmental Consultants, 2001., (submitted by Bob Sheckler, City of Des M	ines on 3/15/2004), station MA-1 show	vs 8 samples collected 11/23/1994,	,

7/9/1995, 4/22/1996, 9/3/1996, 4/23/1998, 1/13/1999, 10/27/1999, and 11/5/1999 exceeded the chronic criterion.

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WRIA	Listing ID Cate	egory	98 List?	Waterbody Name Basis	Location I	nformatio	1			Parameter	Remarks	Medium
9	42320	5	N	McSORLEY CREEK  Herrera Environmental Consultants, 2001., (submitted by Bob Sheckler, City of Des Moines 10/20/1995, 12/7/1995, 11/19/1997, and 10/27/1999 exceeded the chronic criterion.	<b>DR54QH</b> on 3/15/200	_		<b>04E</b> shows	_	<b>Copper</b> 17/9/1995,	١	Water
9	42315	5	N	McSorley Creek  Herrera Environmental Consultants, 2001., (submitted by Bob Sheckler, City of Des Moines criterion; 3 samples in 1994, 6 samples in 1995, 7 samples in 1996, 8 samples in 1997, 5 sa		04), statio	n MC-1	shows	the following excee	Dissolved ox	kygen l	Water
9	42318	5	N	McSORLEY CREEK  Herrera Environmental Consultants, 2001., (submitted by Bob Sheckler, City of Des Moines criterion; 3 samples in 1995, 2 samples in 1996, 3 samples in 1997, 3 samples in 1998, and		04), statio		<b>04E</b> shows	-	Dissolved ox	kygen \	Water
9	42316	5	N	McSORLEY CREEK  Herrera Environmental Consultants, 2001., (submitted by Bob Sheckler, City of Des Moines the percentile criterion; in 1995 a geometric mean of 1134.64 exceeded the criterion and 5 geometric mean of 600.39 exceeded the criterion and 6 of 8 samples (75.0%) exceeded the the criterion and 7 of 8 samples (87.5%) exceeded the percentile criterion; in 1998 a geometric mean of 254.32 exceeded the criterion.	of 6 sample percentile of tric mean o	04), stations es (83.3%) criterion; f 772.86 e	excee n 1997 xceede	shows ded the a geor	s 2 of 3 samples (66. e percentile criterion metric mean of 328.0 criterion and 4 of 5 s	in 1996 a 6 exceeded amples		Water
9	42319	5	N	McSORLEY CREEK  Herrera Environmental Consultants, 2001., (submitted by Bob Sheckler, City of Des Moines the percentile criterion; in 1995 a geometric mean of 964.38 exceeded the criterion and 6 of geometric mean of 570.82 exceeded the criterion and 7 of 8 samples (87.5%) exceeded the the criterion and 6 of 9 samples (66.7%) exceeded the percentile criterion; in 1998 a geomet (80.0%) exceeded the percentile criterion; in 1999 a geometric mean of 440.14 exceeded the criterion.  Seven excursions beyond the criterion at Seattle-Metro station A280 (at Hwy 509 in Saltwater)	f 7 samples percentile o tric mean o se criterion a	04), stations (85.7%) criterion; f 878.26 cand 6 of 8	n MC-2 exceed n 1997 exceede sample	ed the a geor ed the des es (75.0	s 2 of 3 samples (66. percentile criterion; metric mean of 194.7 criterion and 4 of 5 s 0%) exceeded the po	in 1996 a '5 exceeded amples		Water
9	6316	5	Y	MERIDIAN LAKE  Department of Ecology lakes monitoring data shows 2 of 3 (66.6%) daily maximum samples criterion in 2003. Samples were collected near Lake Meridian Park recreation area and reflection of County unpublished data from station M728 show a geometric mean of 7 cfu/100mL with King County unpublished data from station A728 show a geometric mean of 20 cfu/100mL with County unpublished data from station A728 show a geometric mean of 20 cfu/100mL with County unpublished data from station A728 show a geometric mean of 20 cfu/100mL with County unpublished data from station A728 show a geometric mean of 20 cfu/100mL with County unpublished data from station A728 show a geometric mean of 20 cfu/100mL with County unpublished data from station A728 show a geometric mean of 20 cfu/100mL with County unpublished data from station A728 show a geometric mean of 20 cfu/100mL with County unpublished data from station A728 show a geometric mean of 20 cfu/100mL with County unpublished data from station A728 show a geometric mean of 20 cfu/100mL with County unpublished data from station A728 show a geometric mean of 20 cfu/100mL with County unpublished data from station A728 show a geometric mean of 20 cfu/100mL with County unpublished data from station A728 show a geometric mean of 20 cfu/100mL with County unpublished data from station A728 show a geometric mean of 20 cfu/100mL with County unpublished data from station A728 show a geometric mean of 20 cfu/100mL with County unpublished data from station A728 show a geometric mean of 20 cfu/100mL with County unpublished data from station A728 show a geometric mean of 20 cfu/100mL with County unpublished data from station A728 show a geometric mean of 20 cfu/100mL with County unpublished data from station A728 show a geometric mean of 20 cfu/100mL with County unpublished data from station area.	ects water q	uality con	8/18/20 ditions i	003, 9/2 in this a	area only. erion during 2001.	Fecal Colifor	Recent verification m	eting fecal coliform standards. Previous

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King County unpublished data from station A728 show a geometric mean of 11 cfu/100mL with 0% exceeding the percentile criterion during 1999.

Completed Phase I State Clean Lakes Restoration Project in 1978 - Problems Encountered: Blue-green algae, high turbidity, storm water, fecal coliform bacteria.; Seattle-Metro, 1978.

WRIA	A Li	sting ID Catego	ory !	98 List?	Waterbody Name Basis	Location	Infor	matior	1			Parameter	Remarks	Medium
9	1	6356	5	Y	MERIDIAN LAKE  Completed Phase I State Clean Lakes Restoration Project in 1978 - Problems Encountered Seattle-Metro, 1978.	<b>148NFC</b> : Blue-gree					storm water, fecal c	<b>Total Phos</b> poliform bacteria.	phorus	Water
					King County Volunteer Citizen Monitoring Program unpublished data show show summer m standards nutrient criterion from samples collected between 1998-2002.  Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 20 quality standards nutrient criterion for the Puget Lowlands Ecoregion.	·		·	·					
9		10828	5	N	MILL CREEK	TS53NN	0		23N	04E	36	Dissolved o	xygen	Water
to					Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09E070 (Mill Creek @ Orillia) s between 1993 - 2001 measured on these dates: 93/10/20, 93/11/17, 93/12/21, 94/01/19, 94								Policy 1-11 (update number of years of impairments . Bas DO statewide, it was excursions for at le	ment of data it was determined that WQ ed 9/03) was overly restrictive for the f data excursions needed to list for D.O. led on a review of monitoring studies for as determined that multiple (3 or more) least two years of monitoring should be tive indicator that a waterbody continues
													be impaired. (Brale	ey, ECY/WQP, 2003)
9	, ,	16704	5	N	MILL CREEK  Hallock (2001) Dept. of Ecology Ambient Monitoring Station 09E070 (Mill Cr. in Kent at Orill of the samples exceeds the percentile criterion from 3 samples collected during 1993.; Ha		a ged			n of 16	3 exceeds the crite		%	Water
					Cr. in Kent at Orillia) shows a geometric mean of 114 exceeds the criterion and that 44% of collected during 1994.								'	
9		42542	5	N	MILLER CREEK Hallock (2004), Dept. of Ecology ambient station 09D070 shows 2 of 3 samples (66.7%) in y	<b>WB35R0</b> vear 2003 e						Fecal Colifo	orm	Water
9		12616	5	N	MORTON LAKE	469UWA	. 21	IN O	6E (	07		Fecal Colife	orm	Water

King County unpublished data from station A719 show a geometric mean of 54 cfu/100mL with 0% exceeding the percentile criterion during 1999. King County unpublished data from station A719 show a geometric mean of 34 cfu/100mL with 0% exceeding the percentile criterion during 1998.

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WRIA	Listing IE	Category	98 List?	Waterbody Name	Location I	nformatio	n			Parameter		Medium
				Basis							Remarks	
9	15825	5 5	Y	MULLEN SLOUGH	BP27QP	0.538	22N	04E	26	Dissolved of	xygen	Water
to				King County, 1993, 7 excursions out of 10 samples (70%) beyond the upper criterion at statio	n 408 (Mu	illen Slou	gh RM	1.6) du	uring 1992 and 1993.		Policy 1-11 (update number of years of impairments . Base DO statewide, it wa excursions for at le- used as an alternat	nent of data it was determined that WQ ad 9/03) was overly restrictive for the data excursions needed to list for D.O. ed on a review of monitoring studies for as determined that multiple (3 or more) ast two years of monitoring should be rive indicator that a waterbody continues by, ECY/WQP, 2003)
9	15826	5 5	Y	MULLEN SLOUGH	BP27QP	0	22N	04E	23	Dissolved or	xygen	Water
to				King County, 1993, 8 excursions out of 8 samples (100%) beyond the upper criterion at static	on 407 (M	ullen Slou	ugh RM	l 0.5) d	uring 1992 and 1993	i.	Policy 1-11 (update number of years of impairments . Base DO statewide, it wa excursions for at lea	nent of data it was determined that WQ ad 9/03) was overly restrictive for the data excursions needed to list for D.O. ed on a review of monitoring studies for as determined that multiple (3 or more) ast two years of monitoring should be tive indicator that a waterbody continues
											be impaired. (Brale	y, ECY/WQP, 2003)
9	15827	7 5	Y	MULLEN SLOUGH	BP27QP	0.538	22N	04E	26	Fecal Colifo	rm	Water
				King County, 1993, 9 excursions beyond the upper criterion at station 408 (Mullen Slough RN	1 1.6) durii	ng 1992 a	and 199	93.				were previously submitted only in e water segment is listed as Category 5 assessment.
9	13765	5 5	N	NEWAUKUM CREEK  King County unpublished data from station 322 shows e excursions beyond the chronic criterion	JX80LS on in sam			<b>06E</b> etween		Copper		Water
9	13839	5	N	NEWAUKUM CREEK  King County unpublished data from station D322 shows 20 excursions beyond the criterion from	JX80LS om all sam					Copper		Water

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		g oa	90.,	00 =.0	Talo.2004) Talino						· aramotor	***************************************	
					Basis							Remarks	
9	9	12700	5	N	NEWAUKUM CREEK	JX80LS	2.165	21N	06E	33	Dissolved or	xygen Water	
to					King County unpublished data from station D322 (Newaukum Creek RM 2.1) show excursion	ns beyond	the disso	lved ox	xygen o	criterion in 1998 and	2002.	During the assessment of data it was determin Policy 1-11 (updated 9/03) was overly restrictinumber of years of data excursions needed to impairments. Based on a review of monitoring DO statewide, it was determined that multiple excursions for at least two years of monitoring used as an alternative indicator that a waterbook impaired. (Braley, ECY/WQP, 2003)	ve for the plist for D.O. ng studies for (3 or more) should be
9	9	13157	5	Υ	NEWAUKUM CREEK	JX80LS	1.466	21N	06E	28	Fecal Colifor	rm Water	
					King County unpublished data from station 322 (Newaukum Creek RM 1.0) show standards w	vere not me	et each y	ear in s	amples	s collected between	1998 and 2002	).	
ç	9	13165	5	Υ	NEWAUKUM CREEK	JX80LS	2.165	21N	06E	33	Fecal Colifor	rm Water	
					King County unpublished data from station D322 (Newaukum Creek RM 2.1) show standards	were not n	net each	year in	sampl	es collected betweer	n 1998 and 200	02. Was TRS 21N-06E-03 on 1998 list.	-kk
9	9	13166	5	Υ	NEWAUKUM CREEK	JX80LS	7.626	20N	06E	10	Fecal Colifor	rm Water	
					King County unpublished data from station C322 (Newaukum Creek RM 4.9) show excursion 1997.	ns beyond	the geon	netric m	ean cr	iterion in all years be	tween 1994-		
					King County unpublished data from station F322 (Newaukum Creek RM 5.2) show standards 2002.	s were not	met each	n year i	n samp	oles collected between	en 1998 and		
9	9	13971	5	Υ	NEWAUKUM CREEK	JX80LS	16.364	20N	06E	12	Fecal Colifor	rm Water	
					King County unpublished data from station H322 (Newaukum Creek RM 9.4) show excursion 1997.	ns beyond	the geon	netric m	ean cr	iterion in all years be	tween 1994-		
9	9	13972	5	Υ	NEWAUKUM CREEK	JX80LS	16.88	20N	07E	07	Fecal Colifor	rm Water	
					King County unpublished data from station J322 (Newaukum Creek RM 9.7) show excursion and 1997.	ns beyond t	the geom	etric m	ean cri	terion in 1992, 1994,	1995, 1996,		
					King County unpublished data from station N322 (Newaukum Creek RM 10.4, north of SE 416 1994, 1995, and 1996.	6th Street)	) show ex	cursior	is beyo	and the geometric me	ean criterion in		
					King County unpublished data from station P322 (Newaukum Creek RM 10.8) show excursion	ns beyond	the geom	netric m	ean cri	iterion in 1994 and 1	995.		

**Location Information** 

Medium

Parameter

WRIA Listing ID Category 98 List? Waterbody Name

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WRIA	Listing ID Cate	egory	98 List?	Waterbody Name	Location I	nformation				Parameter	Medium
				Basis							Remarks
9	13981	5	Υ	NEWAUKUM CREEK	LT44JU	0 2	0N (	07E 0	)7	Fecal Colifor	m Water
				King County unpublished data from station L322 (Newaukum Creek RM 10.1 at Stonequarry criterion in 1992 and 1994. King County unpublished data from station M322 (Newaukum Creek RM 10.1, north of SE 4 in 1994, 1995, and 1996.		ŕ			,		
9	15846	5	Υ	NEWAUKUM CREEK	RR29EG	0 2	ON (	07E 0	)7	Fecal Colifor	rm Water
				King County unpublished data from station K322 (Newaukum Creek RM 10.0) show excurs 1996.	ions beyon	d the geome	tric me	ean crite	erion in 1992, 199	94, 1995, and	
9	36166	5	N	PUGET SOUND (CENTRAL)	390KRD	47122F4J3	3 4	47.595	122.435	Dioxins, Tota	al Tissue
الموادة				Transboundary Georgia Basin-Puget Sound Working Group on Environmental Indicators. 20	02. show h	nigh concentr	ration (	of dioxi	ns in blubber of h	arbour seal pup	s Location identified in the report is not for a specific
gird cell				and summarizes literature showing links to adverse health effects.							segment, but for the full extent of Puget Sound.
				Ross, et al. 2000 high concentrations in killer whales (Orcinus orca) blubber show toxicity e	quivalents (	exceeding le	vels su	uggeste	ed for marine mar	nmals.	
				Grant and Ross, 2002. doucument human pollution sources in Puget Sound.							
9	36167	5	N	PUGET SOUND (CENTRAL)	390KRD	47122F4J3	3 4	47.595	122.435	Furans, Tota	I Tissue
-2111				Transboundary Georgia Basin-Puget Sound Working Group on Environmental Indicators. 20	02. show h	nigh concentr	ration (	of furan	ns in blubber of ha	arbour seal pups	Location identified in the report is not for a specific
gird cell				and summarizes literature showing links to adverse health effects. Grant and Ross, 2002. de	ocument hu	ıman pollutio	n sour	rces in I	Puget Sound.		segment, but for the full extent of Puget Sound.
9	36168	5	N	PUGET SOUND (CENTRAL)	390KRD	47122F4J3	3 4	47.595	122.435	Total PCBs	Tissue
				Transboundary Georgia Basin-Puget Sound Working Group on Environmental Indicators. 20 and summarizes literature showing links to adverse health effects. Calambokidis, et at. show seals. Grant and Ross, 2002. doucument human pollution sources in Puget Sound.							Location identified in the report is not for a specific gird cell segment, but for the full extent of Puget Sound.
9	6654	5	Υ	PUGET SOUND (S-CENTRAL) AND EAST PASSAGE	390KRD	47122F3C	9 4	47.525	122.395	Fecal Colifor	m Water
				Kendra, 1989. 8 of 19 samples taken between 6/15/1988 and 8/29/1988 exceeded the criteria	on.						Data is only available in hardcopy format. The water segment is listed as Category 5 based on the 1998 assessment.
9	15804	5	Υ	PUGET SOUND (S-CENTRAL) AND EAST PASSAGE	390KRD	47122E3G	i6 4	47.465	122.365	Fecal Colifor	m Water
				Seattle-Metro unpublished data from station MTEC01 exceeded the geometric mean criterion	on in 1989 a	and 1990.					

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WRIA	Listing ID Cate	egory	98 List?	Waterbody Name Basis	Location Ir	nformation		Pa	rameter I	Medium Remarks	
9	15805	5	Y	PUGET SOUND (S-CENTRAL) AND EAST PASSAGE Seattle-Metro unpublished data from station LSKR01exceeded the geometric mean criterion	<b>390KRD</b> in 1987, 19	<b>47122F4H1</b> 989, 1990 and 1		22.415 Fe	ecal Coliforn	rm Water	
9	15806	5	Y	PUGET SOUND (S-CENTRAL) AND EAST PASSAGE Seattle-Metro unpublished data from station LSKS01 exceeded the geometric mean criterior		<b>47122F4G0</b> 989, and 1990.	47.565 12	22.405 Fe	ecal Coliforn	rm Water	
9	15807	5	Y	PUGET SOUND (S-CENTRAL) AND EAST PASSAGE Seattle-Metro unpublished data from station LSRV01exceeded the percentile criterion in 198	<b>390KRD</b> 37, 1989, ar	<b>47122F3F9</b> nd 1990.	47.555 12	22.395 Fe	ecal Coliforn	rm Water	
9	15808	5	Y	PUGET SOUND (S-CENTRAL) AND EAST PASSAGE Seattle-Metro unpublished data from station LSTU01 exceeded the geometric mean criterior	<b>390KRD</b> n in 1991.	47122F3E9	47.545 12	22.395 Fe	ecal Coliforn	rm Water	
9	15809	5	Y	PUGET SOUND (S-CENTRAL) AND EAST PASSAGE  Seattle-Metro unpublished data from station LSVW01 exceeded the geometric mean criterio  Seattle-Metro unpublished data from station LSVW03 exceeded the geometric mean criterio			0 and 1991.	22.395 Fe	ecal Coliforn	rm Water	
9	42493	5	N	PUGET SOUND (S-CENTRAL) AND EAST PASSAGE  King County data (submitted by Kimberle Stark on 4/15/04) station LSKS01 (Alki) shows a ge samples (100.0%) exceeded the percentile criterion in year 2002, and 4 of 12 samples (66.69 samples (50.0%) exceeded the percentile criterion in year 2003.	390KRD eometric me %) exceede	47122F4H1 ean of 42.23 exced the percentile	eeded the criter	ion in year 200	ecal Coliforn 3; 3 of 3 f 12	rm Water	
9	36169	5	N	PUGET SOUND (SOUTH) Simms, et al. 2000. show high concentration of PCBs in blubber of harbour seal pups signiftime when vitamin A is required for growth and development.	390KRD	<b>47122F4J3</b> elated to lower c				<b>Tissue</b> Location identified in the report is not for a specific gird ce segment, but for the southern end of Puget Sound.	)ll
9	15883	5	N	RAVENSDALE CREEK  King County unpublished data from station R320 (Covington/Ravensdale Creek headwaters in 1994, 1995, and 1996.	XR98HN near silica r		06E 36 dale) show excur		emperature the criterion		
<b>9</b>	13965	5	Y	REDONDO CREEK STORET (legacy) unpublished data regarding Seattle-Metro station A290 (near Mouth) show	UNK000 the geome		000U 00 on was exceede			rm Water  This listing is for a stream that does not appear in WASW Given WASWIS of UNK000. TRS=22N-04E-32. Changed	

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01/31/05. -kk

WRIA	Listing ID Cat	egory	98 List?	Waterbody Name Basis	Location	Informati	on			Parameter	Remarks	Medium
9	12618	5	N	SAWYER LAKE  King County unpublished data from station A718 show a geometric mean of 76 cfu/100mL wunpublished data from station A718 show a geometric mean of 5 cfu/100mL with 0% exceeds	vith 0% exc	eeding th	06E ne perce	entile cr	riterion during 1999. ł 1998.	Fecal Colifo	rm	Water
9	8182	5	N	SAWYER LAKE	206OTE	21N	06E	04		Total Phosp	horus	Water
EPA				King County Volunteer Citizen Monitoring Program unpublished data show show summer m standards nutrient criterion from samples collected between 1998-2002.	ean epilimr	netic tota	l phosph	norus di	lid not exceed the wa	ter quality		e building of an interceptor for the City of stewater discharge submitted 3/9/92.
determir	had										approved the TMDI	on 2/12/93. Onwumere (2002)
deterrin	icu			Carrol and Pelletier, 1991.							that the goals set b	by the TMDL were not being achieved.
				Hart-Crowser, 1990.								
				Pelletier and Joy, 1989.								
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 21 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregi		d from th	e report	ted Car	rlson's Trophic State I	Index value		
9	12619	5	N	SHADOW LAKE	444SBN	22N	06E	07		Fecal Colifo	rm	Water
				King County unpublished data from station A714 show a geometric mean of 70 cfu/100mL vunpublished data from station A714 show a geometric mean of 26 cfu/100mL with 0% exceeds						King County		
9	6873	5	Υ	SMAY CREEK	AX88SM	0.026	20N	09E	12	Temperature	•	Water
				Data collected by the Muckleshoot Indian Tribe Tribal TFW (submitted by Karne Walter on 1 0.4 during 1992.	4 Feb 94) s	staff shov	w multip	le excu	ursions beyond the cri	iterion at RM	were previously sub for analysis of the o	ature measurements were taken, but data omitted in software that does not provide lata. The water segment is listed as on the 1998 assessment.
9	15840	5	N	SOOSETTE CREEK	HH34YJ	0	21N	05E	10	Fecal Colifo	rm	Water
				King County unpublished data from station B320 (Soosette Creek at the mouth) show excu	rsions beyo	nd the g	eometri	c mean	criterion in 1995 and	l 1998	Previously listed as	SOOS CREEK SYSTEM
9	12705	5	Y	SPRINGBROOK (MILL) CREEK  King County unpublished data from station 317 (Springbrook Creek RM 1.0) show excursion 2001 and 2002.	BY98ES		_	<b>04E</b> ⁄gen cri		<b>Dissolved o</b> , 1999 2000,	xygen	Water
9	13155	5	Y	SPRINGBROOK (MILL) CREEK King County unpublished data from station 317 (Springbrook Creek RM 1.0) show standard	BY98ES			<b>04E</b> sample		Fecal Colifor		Water

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WR	RIA I	Listing ID Cate	egory	98 List?	Waterbody Name Basis	Location	Informat	tion			Parameter	Remarks	Medium
	9	10716	5	N	STAR LAKE King County unpublished data from station A729 show a geometric mean of 200 cfu/100mL unpublished data from station A729 show a geometric mean of 6 cfu/100mL with 0% exceeds		exceed		percentil		Fecal Colifo	rm	Water
	9	10717	5	N	STEEL LAKE  Department of Ecology lakes monitoring data shows 0 of 3 daily maximum samples (collected in 2003. Samples were collected near Steele Lake Park recreation area and reflects water of King County unpublished data from station A730 show a geometric mean of 134 cfu/100mL	quality cond	03,8/18/2 ditions in exceedin	2003, 9 this a	0/29/2003 rea only.	criterion during 1998	3.	rm	Water
	9	10726	5	N	King County unpublished data from station A730 show a geometric mean of 260 cfu/100mL  TROUT LAKE  King County unpublished data from station A752 show a geometric mean of 260 cfu/100mL unpublished data from station A752 show a geometric mean of 21 cfu/100mL with 0% exceeding the county of the co	<b>744JKJ</b> with 100%	<b>00U</b> exceedi	XXU ing the	00 percentil	e criterion during 199	Fecal Colifo		Water
to	9	15884	5	Y	UNNAMED CREEK WDF# 09.0046 King County, 1993, 3 excursions out of 10 samples (30%) beyond the upper criterion at sta 1993.	<b>ZR70IJ</b> ition 409 (U	<b>0.944</b> Jnnamed			_	<b>Dissolved o</b> ring 1992 and	During the assessm Policy 1-11 (update number of years of impairments . Base DO statewide, it wa excursions for at lea	d 9/03) was overly restrictive for the data excursions needed to list for D.O. ed on a review of monitoring studies for its determined that multiple (3 or more) ast two years of monitoring should be ive indicator that a waterbody continues
	9	15885	5	Y	UNNAMED CREEK WDF# 09.0046 King County, 1993, 6 excursions beyond the upper criterion at station 409 (Unnamed Creek	<b>ZR70IJ</b> 3 RM 2.1 - V	<b>0.944</b> WDF# 0		_	_	Fecal Colifo	Fecal coliform data	Water were previously submitted only in e water segment is listed as Category 5

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based on the 1998 assessment.

### 10719 Ν **WILDERNESS LAKE** 718FYY 22N 06E 27 **Fecal Coliform** Water

Department of Ecology lakes monitoring data shows 2 of 3 (66.6%) daily maximum samples (collected 7/21/2003,8/18/2003, 9/29/2003) exceeded the percentile TRS=22N-06E-27. Consolidated with Listing ID 10720. -kk criterion in 2003. Samples were collected near Lake Wilderness Park recreation area and reflects water quality conditions in this area only.

King County unpublished data from station O717SB show a geometric mean of 8 cfu/100mL with 12% exceeding the percentile criterion during 2002.

King County unpublished data from station O717SB show a geometric mean of 24 cfu/100mL with 21% exceeding the percentile criterion during 2001.

King County unpublished data from station A717 show a geometric mean of 51 cfu/100mL with 0% exceeding the percentile criterion during 1999.

King County unpublished data from station A717 show a geometric mean of 77 cfu/100mL with 39% exceeding the percentile criterion during 1998.

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